



IFW16

## RAW SEQUENCE LISTING

DATE: 08/05/2004

PATENT APPLICATION: US/09/549,186C

TIME: 10:26:23

Input Set : A:\seq lsit.txt

Output Set: N:\CRF4\08052004\I549186C.raw

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3 <110> APPLICANT: Guichard, Gilles
4     Muller, Sylviane
5     Briand, Jean-Paul
6     Regenmortel, Marc
8 <120> TITLE OF INVENTION: Retropeptides, Antibodies Thereto, and Uses Thereof for
9     Vaccination and In Vitro Diagnosis
11 <130> FILE REFERENCE: 1487-25
13 <140> CURRENT APPLICATION NUMBER: 09/549,186C
14 <141> CURRENT FILING DATE: 2000-04-13
16 <150> PRIOR APPLICATION NUMBER: US 08/716,249
17 <151> PRIOR FILING DATE: 1996-09-13
19 <150> PRIOR APPLICATION NUMBER: PCT/FR95/00292
20 <151> PRIOR FILING DATE: 1995-03-13
22 <150> PRIOR APPLICATION NUMBER: FR 94 02950
23 <151> PRIOR FILING DATE: 1994-03-14
25 <160> NUMBER OF SEQ ID NOS: 20
27 <170> SOFTWARE: PatentIn Ver. 2.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 19
31 <212> TYPE: PRT
32 <213> ORGANISM: protein VP1 of aphthous fever virus
34 <400> SEQUENCE: 1
35 Cys Gly Ser Gly Val Arg Gly Asp Ser Gly Ser Ala Leu Arg Val Ala
36 1           5           10           15
38 Arg Gln Leu
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 19
44 <212> TYPE: PRT
45 <213> ORGANISM: FMDV
47 <400> SEQUENCE: 2
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49 1           5           10           15
51 Arg Gln Leu
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 9
57 <212> TYPE: PRT
58 <213> ORGANISM: influenza virus
60 <400> SEQUENCE: 3
61 Gly Ile Leu Gly Phe Val Phe Thr Leu
62 1           5
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 15
67 <212> TYPE: PRT

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```

68 <213> ORGANISM: tetanus toxin
70 <400> SEQUENCE: 4
71 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
72   1           5           10           15
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 9
77 <212> TYPE: PRT
78 <213> ORGANISM: human
80 <400> SEQUENCE: 5
81 Cys Gly Gly Ile Arg Gly Glu Arg Ala
82   1           5
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 9
87 <212> TYPE: PRT
88 <213> ORGANISM: influenza virus
90 <400> SEQUENCE: 6
91 Gly Ile Leu Gly Phe Val Phe Thr Leu
92   1           5
95 <210> SEQ ID NO: 7
96 <211> LENGTH: 20
97 <212> TYPE: PRT
98 <213> ORGANISM: FMDV
100 <400> SEQUENCE: 7
101 Cys Gly Ser Gly Val Arg Gly Asp Phe Gly Ser Leu Ala Pro Arg Val
102   1           5           10           15
104 Ala Arg Gln Leu
105           20
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 20
110 <212> TYPE: PRT
111 <213> ORGANISM: FMDV
113 <400> SEQUENCE: 8
114 Cys Gly Ser Gly Val Arg Gly Asp Phe Gly Ser Leu Ala Leu Arg Val
115   1           5           10           15
117 Ala Arg Gln Leu
118           20
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 20
123 <212> TYPE: PRT
124 <213> ORGANISM: FMDV
126 <400> SEQUENCE: 9
127 Cys Gly Ser Gly Val Arg Gly Asp Ser Gly Ser Leu Ala Leu Arg Val
128   1           5           10           15
130 Ala Arg Gln Leu
131           20
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 15
136 <212> TYPE: PRT
137 <213> ORGANISM: human

```

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139 &lt;220&gt; FEATURE:

140 &lt;221&gt; NAME/KEY: SITE

141 &lt;222&gt; LOCATION: (5)

142 &lt;223&gt; OTHER INFORMATION: Xaa is Nle

144 &lt;400&gt; SEQUENCE: 10

W--&gt; 145 Gly Leu Lys Lys Xaa Leu Arg Thr Cys Ala Val His Ile Thr Leu

146 1 5 10 15

148 &lt;210&gt; SEQ ID NO: 11

149 &lt;211&gt; LENGTH: 21

150 &lt;212&gt; TYPE: PRT

151 &lt;213&gt; ORGANISM: human

153 &lt;400&gt; SEQUENCE: 11

154 Val Cys Glu Lys Leu Cys Asn Glu Lys Leu Leu Lys Lys Ala Arg Ile

155 1 5 10 15

157 His Pro Phe His Ile

158 20

161 &lt;210&gt; SEQ ID NO: 12

162 &lt;211&gt; LENGTH: 18

163 &lt;212&gt; TYPE: PRT

164 &lt;213&gt; ORGANISM: human

166 &lt;400&gt; SEQUENCE: 12

167 Ser Ala Pro Ala Thr Gly Gly Val Lys Lys Pro His Arg Tyr Arg Pro

168 1 5 10 15

170 Gly Thr

174 &lt;210&gt; SEQ ID NO: 13

175 &lt;211&gt; LENGTH: 13

176 &lt;212&gt; TYPE: PRT

177 &lt;213&gt; ORGANISM: influenza virus

179 &lt;400&gt; SEQUENCE: 13

180 Ser Lys Arg Gly Pro Gly Ser Asp Phe Asp Gly Gly Cys

181 1 5 10

184 &lt;210&gt; SEQ ID NO: 14

185 &lt;211&gt; LENGTH: 18

186 &lt;212&gt; TYPE: PRT

187 &lt;213&gt; ORGANISM: influenza virus

189 &lt;400&gt; SEQUENCE: 14

190 Cys Lys Ala Phe Ser Asn Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala

191 1 5 10 15

193 Ser Leu

197 &lt;210&gt; SEQ ID NO: 15

198 &lt;211&gt; LENGTH: 15

199 &lt;212&gt; TYPE: PRT

200 &lt;213&gt; ORGANISM: Schistosoma mansoni

202 &lt;400&gt; SEQUENCE: 15

203 Cys Gly Phe Thr Thr Asn Glu Glu Arg Tyr Asn Val Phe Ala Glu

204 1 5 10 15

207 &lt;210&gt; SEQ ID NO: 16

208 &lt;211&gt; LENGTH: 9

209 &lt;212&gt; TYPE: PRT

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Input Set : A:\seq lsit.txt

Output Set: N:\CRF4\08052004\I549186C.raw

210 <213> ORGANISM: measles virus  
212 <400> SEQUENCE: 16  
213 Asn Phe Leu Arg Glu Lys Lys Gln Cys  
214 1 5  
217 <210> SEQ ID NO: 17  
218 <211> LENGTH: 13  
219 <212> TYPE: PRT  
220 <213> ORGANISM: HIV  
222 <400> SEQUENCE: 17  
223 Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala  
224 1 5 10  
227 <210> SEQ ID NO: 18  
228 <211> LENGTH: 6  
229 <212> TYPE: PRT  
230 <213> ORGANISM: human histone protein H3  
232 <400> SEQUENCE: 18  
233 Ile Arg Gly Glu Arg Ala  
234 1 5  
237 <210> SEQ ID NO: 19  
238 <211> LENGTH: 9  
239 <212> TYPE: PRT  
240 <213> ORGANISM: influenza virus  
242 <400> SEQUENCE: 19  
243 Gly Leu Leu Gly Phe Val Phe Thr Leu  
244 1 5  
248 <210> SEQ ID NO: 20  
249 <211> LENGTH: 9  
250 <212> TYPE: PRT  
251 <213> ORGANISM: influenza virus  
253 <400> SEQUENCE: 20  
254 Gly Ile Leu Gly Phe Val Phe Ala Leu  
255 1 5

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/549,186C

DATE: 08/05/2004  
TIME: 10:26:24

Input Set : A:\seq lsit.txt  
Output Set: N:\CRF4\08052004\I549186C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; Xaa Pos. 5

**VERIFICATION SUMMARY**

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Input Set : A:\seq lsit.txt

Output Set: N:\CRF4\08052004\I549186C.raw

L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0